

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

[c1]

1. (Currently Amended) An anti-friction and anti-wear liquid coating composition for use with parts made of materials that have softening points below about 300°F, the coating composition comprising:

a mixture of (i) solid lubricants comprising boron nitride, graphite and molybdenum disulfide, (ii) a ~~thermoset~~ resin system, (iii) at least one catalyst for curing the resin system and (iv) a solvent system comprising highly volatile solvents[.].

wherein the coating composition further comprises a curing agent, the resin system comprises an epoxy resin and a vinyl butyral resin, and the solvent system comprises diacetone alcohol, methyl ethylene ketone, 2-propoxy ethanol present and xylene, and wherein the components of the solvent system are present in amounts to enable the coating composition to cure at temperatures less than 300°F.

[c2]

2. (Original) The coating composition of claim 1 wherein the solid lubricants comprise about 12-35 weight percent of the total weight of the coating composition and the solvent system comprises about 35-75 weight percent of the total weight of the coating composition.

[c3]

3. (Original) The coating composition of claim 2 wherein the solvent system has a boiling point below about 150°F.

[c4]

4. (Cancelled)

[c5]

5. (Cancelled)

[c6]

6. (Currently Amended) An anti-friction and anti-wear liquid coating composition for use with parts made of materials that have softening points below about 300°F, the coating composition comprising:

a mixture of (i) solid lubricants comprising boron nitride, graphite and molybdenum disulfide, (ii) a resin system, (iii) at least one catalyst for curing the resin system and (iv) a solvent system comprising highly volatile solvents. ~~The coating composition of claim~~ ‡ wherein the coating composition comprises (in weight % of the composition) about 5-14% graphite, about 6-17% MoS₂, ~~[[and]]~~ about 2-5% BN, ~~an epoxy resin in an amount of about~~ 16-25% epoxy resin, ~~[[a]]~~ vinyl butyral resin, present in an amount of about 0.1-0.4%, a tertiary amine catalyst present in an amount of about 0.1-0.5%, a dicyandimide cross-linking agent present in an amount of about 1-3%, diacetone alcohol present in an amount of about 4-12%, methyl ethylene ketone present in an amount of about 10-30%, 2-propoxy ethanol present in an amount of about 8-20%, and xylene present in an amount of about 6-18%.

[c7]

7. (Currently Amended) The coating composition of claim ~~[[1]]~~ 6 wherein the coating composition has a viscosity of between about 5 to 75 centipoise at 25°C and comprises (in weight % of the composition) about 8.1% graphite, about 10.1% MoS₂, about 3% BN, about 22.25% epoxy resin, about 0.15% vinyl butyral resin, about 0.3% tertiary amine catalyst, about 1.3% dicyandiamide cross-linking agent, about 8.3% diacetone alcohol, about 20.4% methyl ethylene ketone, about 14.5% 2-propoxy ethanol, and about 11.6% xylene.

[c8]

8. (Currently Amended) A method of coating parts made ~~from~~ ~~of~~ ~~low~~ ~~softening point materials~~ of materials that have softening points below about 300°F, the method comprising:

coating at least a portion of the part with an anti-friction and anti-wear hard coating composition that comprises a mixture of (i) solid lubricants comprising boron nitride, graphite and molybdenum disulfide, (ii) a ~~thermoset~~ resin system, (iii) at least one catalyst for curing the resin system, and a (iv) solvent system comprising highly volatile solvents; and curing the coating composition to form a coating on the part.

[c9]

9. (Original) The method of claim 8 wherein the solid lubricants comprise about 12-35 weight percent of the total weight of the coating composition and the solvent system comprises about 35-75 weight percent of the total weight of the coating composition.

[c10]

10. (Original) The method of claim 9 wherein the solvent system has a boiling point below about 150°F.

[c11]

11. (Original) The method of claim 10 wherein the solvent system consists of solvents selected from the group consisting of methyl ethyl ketone, 2-propoxy ethanol, xylene and diacetone alcohol.

[c12]

12. (Original) The method of claim 11 wherein the resin comprises an epoxy resin.

[c13]

13. (Currently Amended) The method of claim 8 wherein the coating composition further comprises a curing agent and the coating composition comprises (in weight % of the composition) about 5-14% graphite, about 6-17% MoS₂, and about 2-5% BN, an epoxy resin in an amount of 16-25%, a vinyl butyral resin, present in an amount of about 0.1-0.4%, a tertiary amine catalyst present in an amount of about 0.1-0.5%, a dicyandimide cross-linking agent present in an amount of about 1-3%, diacetone alcohol present in an amount of about 4-12%, methyl ethylene ketone present in an amount of about 10-30%, 2-propoxy ethanol present in an amount of about 8-20%, and xylene present in an amount of about 6-18%.

[c14]

14. (Currently Amended) The method of claim [[8]] 13 wherein the coating composition comprises (in weight % of the composition) about 8.1% graphite, about 10.1% MoS₂, about 3% BN, about 22.25% epoxy resin, about 0.15% vinyl butyral resin, about 0.3% tertiary amine catalyst, about 1.3% dicyandiamide cross-linking agent, about 8.3% diacetone alcohol, about 20.4% methyl ethylene ketone, about 14.5% 2-propoxy ethanol, and about 11.6% xylene.

[c15]

15. (Original) The method of claim 14 wherein the part has a softening point below about 300°F.

[c16]

16. (Original) The method of claim 15 wherein the part comprises HDPE.

[c17]

17. (Currently Amended) An article coated with ~~[[the]]~~ a coating composition ~~of claim 1~~ comprising a mixture of (i) solid lubricants comprising boron nitride, graphite and molybdenum disulfide, (ii) a resin system, (iii) at least one catalyst for curing the resin system and (iv) a solvent system comprising highly volatile solvents, wherein the article is made of a material that has a softening point below about 300°F.

[c18]

18. (Original) The article of claim 17 wherein the material is made of a substantial amount of HDPE.

[c19]

19. (Original) The article of claim 17 wherein the article is made of a substantial amount of elastomer.

[c20]

20. (Original) The article of claim 17 wherein the highly volatile solvents have an evaporation/boiling point below about 150°F.

21. (New) The article of claim 17 wherein the coating composition further comprises a curing agent and the coating composition comprises (in weight % of the composition) about 5-14% graphite, about 6-17% MoS₂, and about 2-5% BN, an epoxy resin in an amount of 16-25%, a vinyl butyral resin, present in an amount of about 0.1-0.4%, a tertiary amine catalyst present in an amount of about 0.1-0.5%, a dicyandimide cross-linking agent present in an amount of about 1-3%, diacetone alcohol present in an amount of about 4-12%, methyl ethylene ketone present in an amount of about 10-30%, 2-propoxy ethanol present in an amount of about 8-20%, and xylene present in an amount of about 6-18%.